RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical

Information Center 1012,
Application Serial Number: 10/570,9048
1/30/

ENTERED



IFWO

RAW SEQUENCE LISTING DATE: 01/30/2007
PATENT APPLICATION: US/10/570,904B TIME: 08:42:54

Input Set: N:\efs\01_29_07\10570904b_efs\CorrectedSequenceListing-

3rd.txt

```
3 <110> APPLICANT: TAKESHIMA, Seiji
             MATSUMURA, Tadanobu
             KISHIMOTO, Takahide
     5
     6
             OKA, Masanori
     7
             HIRAYAMA, Noriaki
     9 <120> TITLE OF INVENTION: MODIFIED PYRROLOQUINOLINE QUINONE (PQQ) DEPENDENT GLUCOSE
DEHYDROGENASE
    10
             EXCELLENT IN SUBSTRATE SPECIFICITY
    12 <130> FILE REFERENCE: 251134
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/570,904B
                                                              see pil
C--> 14 <141> CURRENT FILING DATE: 2006-03-07
    14 <150> PRIOR APPLICATION NUMBER: PCT/JP2004/012508
    15 <151> PRIOR FILING DATE: 2004-08-31
    17 <150> PRIOR APPLICATION NUMBER: JP 2003-315797
    18 <151> PRIOR FILING DATE: 2003-09-08
    20 <150> PRIOR APPLICATION NUMBER: JP 2003-315799
    21 <151> PRIOR FILING DATE: 2003-09-08
    23 <150> PRIOR APPLICATION NUMBER: JP 2004-060283
    24 <151> PRIOR FILING DATE: 2004-03-04
    26 <150> PRIOR APPLICATION NUMBER: JP 2004-060282
    27 <151> PRIOR FILING DATE: 2004-03-04
    29 <150> PRIOR APPLICATION NUMBER: JP 2004-151905
    30 <151> PRIOR FILING DATE: 2004-05-21
    32 <160> NUMBER OF SEQ ID NOS: 94
    34 <170> SOFTWARE: PatentIn version 3.1
    36 <210> SEQ ID NO: 1
    37 <211> LENGTH: 455
    38 <212> TYPE: PRT
    39 <213> ORGANISM: Acinetobacter baumannii
    41 <400> SEQUENCE: 1
    ·43 Asp Ile Pro Leu Thr Pro Ala Gln Phe Ala Lys Ala Lys Thr Glu Asn
                        5
                                            10
    47 Phe Asp Lys Lys Val Ile Leu Ser Asn Leu Asn Lys Pro His Ala Leu
                    20
                                        25
    51 Leu Trp Gly Pro Asp Asn Gln Ile Trp Leu Thr Glu Arg Ala Thr Gly
    55 Lys Ile Leu Arg Val Asn Pro Val Ser Gly Ser Ala Lys Thr Val Phe
    59 Gln Val Pro Glu Ile Val Ser Asp Ala Asp Gly Gln Asn Gly Leu Leu
                            70
    63 Gly Phe Ala Phe His Pro Asp Phe Lys His Asn Pro Tyr Ile Tyr Ile
                                            90
    67 Ser Gly Thr Phe Lys Asn Pro Lys Ser Thr Asp Lys Glu Leu Pro Asn
```

110

68 100 105

Input Set : N:\efs\01_29_07\10570904b_efs\CorrectedSequenceListing-

3rd.txt

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71 Gln Thr Ile Ile Arg Arg Tyr Thr Tyr Asn Lys Thr Thr Asp Thr Phe
                               120
          115
75 Glu Lys Pro Ile Asp Leu Ile Ala Gly Leu Pro Ser Ser Lys Asp His
                           135
79 Gln Ser Gly Arg Leu Val Ile Gly Pro Asp Gln Lys Ile Tyr Tyr Thr
                                           155
                       150
83 Ile Gly Asp Gln Gly Arg Asn Gln Leu Ala Tyr Leu Phe Leu Pro Asn
                                       170
                  165
87 Gln Ala Gln His Thr Pro Thr Gln Glu Leu Asn Ser Lys Asp Tyr
              180
                                   185
91 His Thr Tyr Met Gly Lys Val Leu Arg Leu Asn Leu Asp Gly Ser Val
                              200
95 Pro Lys Asp Asn Pro Ser Phe Asn Gly Val Val Ser His Ile Tyr Thr
                          215 ·
99 Leu Gly His Arg Asn Pro Gln Gly Leu Ala Phe Ala Pro Asn Gly Lys
                       230
                                            235
103 Leu Leu Gln Ser Glu Gln Gly Pro Asn Ser Asp Asp Glu Ile Asn Leu
                   245
                                        250
107 Val Leu Lys Gly Gly Asn Tyr Gly Trp Pro Asn Val Ala Gly Tyr Lys
                                    265
               260
111 Asp Asp Ser Gly Tyr Ala Tyr Ala Asn Tyr Ser Ala Ala Thr Asn Lys
112
           275
                                280
115 Ser Gln Ile Lys Asp Leu Ala Gln Asn Gly Ile Lys Val Ala Thr Gly
                            295
                                                300
119 Val Pro Val Thr Lys Glu Ser Glu Trp Thr Gly Lys Asn Phe Val Pro
                       310
                                            315
123 Pro Leu Lys Thr Leu Tyr Thr Val Gln Asp Thr Tyr Asn Tyr Asn Asp
                   325
                                        330
127 Pro Thr Cys Gly Glu Met Ala Tyr Ile Cys Trp Pro Thr Val Ala Pro
               340
                                    345
131 Ser Ser Ala Tyr Val Tyr Thr Gly Gly Lys Lys Ala Ile Pro Gly Trp
                                360
135 Glu Asn Thr Leu Leu Val Pro Ser Leu Lys Arg Gly Val Ile Phe Arg
                            375
139 Ile Lys Leu Asp Pro Thr Tyr Ser Thr Thr Leu Asp Asp Ala Ile Pro
                        390
143 Met Phe Lys Ser Asn Asn Arg Tyr Arg Asp Val Ile Ala Ser Pro Glu
                   405
                                        410
147 Gly Asn Thr Leu Tyr Val Leu Thr Asp Thr Ala Gly Asn Val Gln Lys
               420
                                    425
151 Asp Asp Gly Ser Val Thr His Thr Leu Glu Asn Pro Gly Ser Leu Ile
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155 Lys Phe Thr Tyr Asn Gly Lys
      450
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160 <211> LENGTH: 1368
161 <212> TYPE: DNA
162 <213> ORGANISM: Acinetobacter baumannii
164 <400> SEQUENCE: 2
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Input Set : N:\efs\01_29_07\10570904b_efs\CorrectedSequenceListing-

3rd.txt

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	7 gtgattctgt ccaatttaaa taaaccacat gctttgttat gggggccaga		120		
169	9 tggttaaccg aacgtgcaac tggcaaaatt ttaagagtaa atcctgtatc	tggtagcgcg	180		
	1 aaaacagtat ttcaggttcc tgaaattgtg agtgatgctg atgggcaaaa		240		
	3 ggttttgctt ttcatcctga ctttaaacat aacccttata tctatatttc		300		
	5 aaaaatccaa aatctacaga taaagagtta cctaatcaga cgattattcg		360		
	7 tataataaaa ctacagatac atttgaaaag cctattgatt tgattgcagg		420		
	9 tcaaaagatc atcagtctgg tcgtctcgtt attggtccag accaaaaaat		480		
	1 attggtgacc aaggtcgtaa tcagttagct tatctgttct taccgaatca		540		
	3 actocgacto agcaagagot caatagtaaa gactaccata catatatggg		600		
	5 cgcttaaatc tggacggcag tgtacctaaa gacaacccaa gctttaacgg		660		
	7 catatctaca ctttagggca ccgtaatcca caaggtttag catttgcccc		720		
	9 cttttacaat ctgagcaagg accaaattct gatgatgaaa ttaaccttgt		780		
191	1 ggtaactatg gctggccaaa tgtagctggt tataaagatg acagtggtta	tgcctatgca	840		
193	3 aactattegg cageaaceaa taaateacaa attaaagatt tageteaaaa	cgggataaaa	900		
	5 gtagcaacag gtgttcctgt gactaaagag tctgaatgga ctggtaaaaa		960		
	7 cctttgaaaa ctttatatac ggtacaagat acctataact ataatgaccc		1020		
	9 gagatggcat atatttgctg gccaacggtt gcaccgtcat cagcatatgt		1080		
201	1 ggcaaaaaag cgattccagg gtgggaaaat acattattgg tcccatcttt	aaaacgtggg '	1140		
	3 gtgattttcc gtattaaatt ggacccgaca tatagcacga ctttggatga		1200		
	5 atgtttaaaa gcaataaccg ttatcgtgat gtcatcgcta gtccagaagg		1260		
207	7 tatgtgctga ctgatacagc ggggaatgta caaaaagatg atggttctgt	cactcatact	1320		
209	9 ttagagaatc ccggttctct cattaaattt acatataacg gtaagtaa		1368		
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213	3 <211> LENGTH: 33				
	4 <212> TYPE: DNA				
	5 <213> ORGANISM: Artificial Sequence				
	7 <220> FEATURE:				
•	8 <223> OTHER INFORMATION: Artificial Sequence oligonucle	eotide			
	0 <400> SEQUENCE: 3		33		
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	5 <211> LENGTH: 33				
	6 <212> TYPE: DNA				
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	9 <220> FEATURE:				
	0 <223> OTHER INFORMATION: Artificial Sequence oligonucle	eotide			
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	2 <223> OTHER INFORMATION: Artificial Sequence oligonucle	eotide			
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	8 <210> SEQ ID NO: 6	•			
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Input Set : N:\efs\01_29_07\10570904b_efs\CorrectedSequenceListing-

3rd.txt

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	33
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Input Set : N:\efs\01_29_07\10570904b_efs\CorrectedSequenceListing-

3rd.txt

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		<220> FEATURE:	
	326	<223> OTHER INFORMATION: Artificial Sequence oligonucleotide	
	328	<400> SEQUENCE: 12	
	329	cgaatcaggc acagcatact ccgactcagc aagagctcaa tag	43
	332	<210> SEQ ID NO: 13	
	333	<211> LENGTH: 45	
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	335	<213> ORGANISM: Artificial Sequence	
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	340	<220> FEATURE:	
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	342	<222> LOCATION: (17)(25)	
	343	<223> OTHER INFORMATION: "n stands for any base"	
	346	<400> SEQUENCE: 13 .	
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	351	<211> LENGTH: 40	
	352	<212> TYPE: DNA	
	353	<213> ORGANISM: Artificial Sequence	
	355	<220> FEATURE:	
	356	<223> OTHER INFORMATION: Artificial Sequence oligonucleotide	
	358	<400> SEQUENCE: 14	
	359	gatgctgatg ggcaaaatgg tttgttaggt tttgcttttc	40
	362	<210> SEQ ID NO: 15	
	363	<211> LENGTH: 38	
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	365	<213> ORGANISM: Artificial Sequence	
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	368	<223> OTHER INFORMATION: Synthetic	
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		<222> LOCATION: (7)(15)	
		<223> OTHER INFORMATION: "n stands for any base"	
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		<211> LENGTH: 52	
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RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/570,904B

DATE: 01/30/2007 TIME: 08:42:55

Input Set : N:\efs\01_29_07\10570904b_efs\CorrectedSequenceListing-

3rd.txt

FIS

Output Set: N:\CRF4\01302007\J570904B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:13; N Pos. 17,18,19,20,21,22,23,24,25
Seq#:15; N Pos. 7,8,9,10,11,12,13,14,15
Seq#:17; N Pos. 18,19,20,21,22,23,24,25,26
Seq#:19; N Pos. 16,17,18,19,20,21,22,23,24
Seq#:21; N Pos. 17,18,19
Seq#:30; N Pos. 16
Seq#:33; N Pos. 16
Seq#:34; N Pos. 16
Seq#:49; N Pos. 17
Seq#:58; N Pos. 17
Seq#:60; N Pos. 17
Seq#:61; N Pos. 17
Seq#:62; N Pos. 17
Seg#:63; N Pos. 17
Seq#:69; N Pos. 19,20
Seq#:70; N Pos. 19,20
Seq#:71; N Pos. 19,20
Seq#:73; N Pos. 20,21,22
Seq#:74; N Pos. 20,21,22
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VERIFICATION SUMMARY

DATE: 01/30/2007

PATENT APPLICATION: US/10/570,904B

TIME: 08:42:55

Input Set: N:\efs\01 29 07\10570904b efs\CorrectedSequenceListing-

3rd.txt

Output Set: N:\CRF4\01302007\J570904B.raw

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